

SPEAKER DAMPER

FIELD OF THE INVENTION

[0001] This invention relates generally to a speaker, particularly to a speaker
5 damper.

BACKGROUND OF THE INVENTION

[0002] As a speaker damper is usually inserted between the casing and the drum
paper of speaker, and a metallic whisker for transmitting signals from the casing
terminal to the drum paper is generally laid across the damper. Therefore, the
10 suspended metallic whisker is liable to be ruptured in dismounting a speaker or in
vibrating the drum paper, or it may be entrapped in repetitious jump-rope
phenomenon during power output.

[0003] In view of abovesaid defects, a proposal disclosed is to weave the
metallic whisker in a fabric damper before the later is pressed and molded. By so
15 doing, the fabrication process is more complicated with a higher cost though, the
rupture of whisker can be avoided however unmerited in the following points
nevertheless:

- (1) Complicated process and high cost;
- (2) Possible change of a whisker's diameter when molding, which may incur
20 poor transmission quality or result in rupture;
- (3) Difficult to view any rupture of a whisker woven in the fabric damper; and
- (4) A shortened lifetime of molds when the damper is molded together with
the whisker.

SUMMARY OF THE INVENTION

25 [0004] The primary object of this invention is to provide a speaker damper

composed of a damper casing and a metallic whisker, wherein the damper casing is substantially a woven pad formed as a circular wafer with corrugated sections, while the metallic whisker is substantially a conductive wire intermittently penetrated and buried in the damper casing; and a fastening string is provided to tie the metallic whisker intermittently and hold it steadily to the damper casing without incurring the so-called repetitious jump-rope phenomenon during vibration of the later.

[0005] The merits of this invention may be summarized as the following:

- (1) Rupture of the metallic whisker could be significantly avoided.
- (2) In the event of any rupture, it can be viewed and repaired easily.
- (3) Jump-rope phenomenon could be thoroughly eliminated.

[0006] For more detailed information regarding advantages or features of this invention, at least an example of preferred embodiment will be elucidated below with reference to the annexed drawings.

BRIEF DESCRIPTION OF THE DRAWINGS

[0007] The related drawings in connection with the detailed description of this invention to be made later are described briefly as follows, in which:

Fig. 1 is a perspective view of this invention;

Fig. 2 is an exploded view of this invention in three dimensions;

Fig. 3 is a cutaway sectional view of this invention (1);

Fig. 4 is another cutaway sectional view of this invention (2); and

Fig. 5 is a cutaway sectional view showing an embodiment of this invention.

DETAILED DESCRIPTION OF THE INVENTION

[0008] As indicated in a perspective view of Fig. 1 and an exploded view of Fig.

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2, a speaker damper of this invention mainly comprises a damper casing 1 and a metallic whisker 2. The damper casing 1 is substantially a woven pad formed as a circular wafer with corrugated sections. The metallic whisker 2 is a conductive wire penetratingly disposed at a proper position of the top rim of the damper casing 1. Moreover, a fastening string 3 is provided to tie the metallic whisker 2 intermittently between the damper casing 1 and the metallic whisker 2 for positioning the whisker 2 to the damper casing 1 steadily without incurring the so-called repetitious jump-rope phenomenon during vibration of the damper casing 1.

10 [0009] Referring to Figs. 3 and 4—sectional view (1) and view (2) of this invention—the corrugated damper casing 1 is composed of a plurality of peak segments 11 and valley segments 12 in view of its cutaway section. The intermittently buried metallic whisker 2 is extended toward the center of the damper casing 1 and held by the fastening string 3 either intermittently along the peak segments 11 or consecutively along the valley segments 12, and every juncture of the fastening string 3 and the damper casing or the fastening string 3 and the metallic whisker 2 is fixed with a fixing binder 4 so that the metallic whisker 2 is stably fixed to the damper casing 1 without incurring the jump-rope phenomenon.

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20 [0010] According to an embodiment of this invention shown in Fig. 5, the damper casing 1 is arranged between a speaker casing 5 and a drum paper 6. One end of the metallic whisker 2 is connected to a signal terminal 51 of the speaker casing 5, then is penetrated through the damper casing 1 and fixed with the fastening string 3. Finally, the other end of the metallic whisker 2 is extended to reach a proper position at the circumference of the drum paper 6 such that signals

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